09/857,539

'HOME' ENTERED AT 10:27:23 ON 15 JAN 2004)

	FILE 'BIOS	IS, MEDLINE, CAPLUS, WPIDS' ENTERED AT 10:30:56 ON 15 JAN 2004
L1	6124	S (CRYPTOSPORIDIUM PARVUM) AND OOCYST OR SPOROZOITE
L2	1471	S L1 (P) ANTIBODY
L3	107764	S L1 AND MONOCLONAL OR POLYCLONAL
L4	881	S L1 AND (MONOCLONAL OR POLYCLONAL)
L5	2	S L4 AND (CRL-12604 OR CP7)
L6	1	DUP REM L5 (1 DUPLICATE REMOVED)

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ANSWER 1 OF 7 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
L4
     2001:153058 BIOSIS
AN
     PREV200100153058
DN
     Immunoassay for viable Cryptosporidium parvum oocysts
TI
     in turbid environmental water samples.
     Call, Jeffrey L. [Reprint author]; Arrowood, Michael; Xie, Long-Ti;
ΑU
     Hancock, Kathy; Tsang, Victor C. W.
     Biotechnology Center, Utah State University, Logan, UT, 84322, USA
CS
     Journal of Parasitology, (February, 2001) Vol. 87, No. 1, pp. 203-210.
SO
     CODEN: JOPAA2. ISSN: 0022-3395.
     Article
DT
LΑ
     English
     Entered STN: 28 Mar 2001
ED
     Last Updated on STN: 15 Feb 2002
     Cryptosporidium parvum oocysts in drinking water have
AB
     been implicated in outbreaks of diarrheal disease. Current methods for
     monitoring environmental exposures to/C. parvum only account for total
     number of oocysts without regard for the viability of the parasite.
     Measurement of oocyst viability, as indicated by an oocyst's ability to
     excyst, is useful because over time oocysts lose the ability to excyst
and
     become noninfective. Thus, correlating the number of viable oocysts in
     drinking water with incidence and risk for disease should be more
     than using the total number of oocysts. We have developed a quantitative
     assay capable of detecting/low numbers of excystable,
sporozoite-releasing
     C. parvum oocysts in turbid water samples. Monoclonal (CP7) and
     polyclonal antibodies have been developed against a sporozoite
     antigen released only/during excystation or when the oocyst is
     mechanically disrupted. CP7 is specific for C. parvum and does not react
     with C. baileyi, C. muris, C. serpentis, Giardia spp., Eimeria spp., or E.
     nieschulzi. In this assay, oocysts in the test sample are first excysted
     and then centrifuged. The soluble sporozoite antigen
     is captured by CP7 attached to a magnetic bead. The captured
     antigen is then/detected by ruthenium-labeled polyclonal
     antibodies via/electrochemiluminescence. The CP7 viability assay can
     detect as few/as 50 viable oocysts in a 1-ml assay sample with a
turbidity
     as high as 2/00 Nephelometric turbidity units. This sensitive,
     turbidity-tolerant assay for oocyst viability may permit a better
     assessment of the disease risk associated with the presence of
     environmental oocysts.
     ANSWER 2 OF 7 BIOSIS COPYRIGHT 2004 BIOLOGICAL ABSTRACTS INC. on STN
L4
     2000:453919 BIOSIS
AN
     PREV200000453919
DN
     An immunoglobulin G1 monoclonal antibody highly specific to the
ΤI
     wall of Cryptosporidium oocysts.
     Weir, C. [Reprint author]; Vesey, G.; Slade, M.; Ferrari, B.; Veal, D.
ΑU
A.;
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